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CLAIMS

What is claimed is:

5 1.A low profile transformer, comprising:

a bobbin; and

a core structure, coupled to said bobbin, said core structure further comprising:

an I-core;

two U-cores, coupled to said I-core.

2.The transformer according to claim 1, wherein said bobbin further comprises a primary coil, a secondary coil and a plurality of pins formed thereon.

3.A low profile transformer, comprising:

a bobbin; and

a core structure, coupled to said bobbin, said core structure further comprising:

an I-core, having at least one recessed edge;

two U-cores, coupled to said I-core, having at least one protrusive edge;

wherein said U-cores are coupled to said I-core by means of said recessed edge and said protrusive edge.

4.The transformer according to claim 3, wherein said bobbin further comprises a primary coil, a secondary coil and a plurality of pins formed thereon.

30 5. The transformer according to claim 3, wherein said recessed

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edge is formed on a terminal of said I-core.

6.The transformer according to claim 3, wherein said protrusive edge is formed on a terminal of said U-core.

7.A low profile transformer, comprising:

a bobbin; and

a core structure, coupled to said bobbin, said core structure further comprising:

an I-core, having at least one recessed edge;

two U-cores, coupled to said I-core, having a plurality of protrusive edges:

wherein said U-cores are coupled to said I-core by means of said recessed edge and said protrusive edges.

- 8.The transformer according to claim 7, wherein said bobbin further comprises a primary coil, a secondary coil and a plurality of pins formed thereon.
- 20 9.The transformer according to claim 7, wherein said recessed edge is formed on a terminal of said I-core.
 - 10.The transformer according to claim 7, wherein said recessed edges are formed on different surfaces of said Ucore.
 - 11.The transformer according to claim 7, wherein said recessed edges are formed on the same surfaces of said Ucore.

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12. The transformer according to claim 7, wherein said recessed edges are formed on corners of said U-core.